FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. MUTU12.001DV1	APPLICATION NO. Unknown
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	APPLICANT Kim, et al.	
(USE SEVERAL SHEETS IF NECESSARY)	FILING DATE Herewith	GROUP Unknown

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
CSH	1	5,840,217	Nov. 24, 98	Lupo et al.	252	583	
CSH	2	5,026,894	Jan. 25, 91	Tour et al.	558	46	

EXAMINER INITIAL		OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)
CSH	3	Smet, et al., A GENERAL SYNTHESIS OF DISUBSTITUTED RUBICENES, 1998, J. Org. Chem., 2769-2773
CSH	4	Smet, et al. A NOVEL ACID-CATALYZED REARRANGEMENT OF 9,10-DIARYL-9,10-DIHYDROANTHRACENE-9,10-DIOLS AFFORDING 10,10'-DIARYL-9-ANTHRONES., 1999, Elsevier Science Ltd., Tetrahedron 55 7859-7874.
CSH	5	Hamada et al., Organic light-emitting diodes using a gallium complex., April 20, 1998, American Institute of Physics, Volume 72, No. 16.
CSH	6	Murata et al., Organic light-emitting devices with saturated red emission using 6, 13-diphenylpentacene., April 16, 2001, American Institute of Physics, Volume 78, No. 16.
CSH	7	Shi et al., Doped organic electroluminescent devices with improved stability., March 31, 1997, American Institute of Physics, Volume 70, No. 13.
CSH	8	Adachi et al., High-efficiency organic electrophosphorescent devices with tris(2-phenylpyridine) iridium doped into electron-transporting materials., August 7, 2000, American Institute of Physics, Volume 77, No. 6.
CSH	9	Adachi et al., High-efficiency red electrophosphorescence devices.. Marhc 12, 2001, American Institute of Physics, Volume 78, No. 11.
CSH	10	Burrows et al., Operating lifetime of phosphorescent organic light emitting devices., May 1, 2000, American Institute of Physics., Volume 76, No. 18.
CSH	11	Baldo et al., Very high-efficiency green organic light-emitting devices based on electrophosphorescence., July 5, 1999, American Institute of Physics., Volume 75, No. 1.
CSH	12	Baldo et al., Improved energy transfer in electrophosphorescent devices., January 18, 1999, American Institute of Physics., Volume 74, No. 3.
CSH	13	Hamada et al., Organic light-emitting diodes using 3- or 5-hydroxyflavone-metal compexes., December 8, 1997, American Institute of Physics., Volume 71, No. 23.
CSH	14	Baldo et al., Improved energy transfer in electrophosphorescent devices., January 18, 1999, American Institute of Physics., Volume 74, No. 3.
CSH	15	Gigli et al., High-efficientcy oligothiopene-based light-emitting diodes., July 26, 1999, American Institute of Physics., Volume 75, No. 4.
CSH	16	Kido et al., Fabrication of highly efficient organic electroluminescent devices., November 9, 1998, American Institute of Physics., Volume 73, No. 19.
CSH	17	Yang et al., Photoluminescence and electroluminescence properties of dye-doped polymer system.. 1997, Elsevier Science S.A., Sythetic Metals., 335-336.
CSH	18	Watanabe et al. Optimization of emitting efficiency in organic LED cells using Ir complex., 2001, Elsevier Science S.A., Sythetic Metals., 203-207.
CSH	19	Liedenbaum., Low voltage operation of large area polymer LEDs., 1997, Elsevier Science S.A., Sythetic Metals., 109-111.

EXAMINER CSH	DATE CONSIDERED 11/29/04

*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. MUTU12.001DV1	APPLICATION NO. ~~Unknown~~ 10/718,083
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	APPLICANT Kim, et al.	
(USE SEVERAL SHEETS IF NECESSARY)	FILING DATE ~~Herewith~~ 11/19/03	GROUP ~~Unknown~~ 1774

EXAMINER INITIAL		OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)
CSH	20	Hide et al., Conjugated polymers as solid-state laser materials., 1997, Elsevier Science S.A., Sythetic Metals., 35-40.
CSH	21	Muckl et al., Transient electroluminescence measurements on organic heterolayer light emitting diodes., 2000, Elsevier Science S.A., Sythetic Metals., 91-94.
CSH	22	Shoustikov et al., Orange and red organic light-emitting devices using aluminum tris(5-hydroxyquinoxaline), 1997, Elsevier Science S.A., Sythetic Metals., 217-221.
CSH	23	Tokito et al., strongly modified emissio from organic elelctroluminescent device with a microcavity., 1997. Elsevier Science S.A., Sythetic Metals., 49-52.
CSH	24	Wakimoto et al., Stability characteristics of quinacridone and coumarin molecules as guest dopants in the organic LEDs., 1997, Elsevier Science S.A., Sythetic Metals., 15-19.
CSH	25	Ma et al., Bright blue electroluminescent devices utiliaing poly (*N* – vinylcarbazole) doped with fluorescent dye., 1997, Elsevier Science S.A., Sythetic Metals., 331-332.
CSH	26	Sano et al., Organic eletroluminescent devices doped condensed polycyclic aromatic compounds., 1997, Elsevier Science S.A., Sythetic Metals., 27-30.
CSH	27	Mitschke et al., The electroluminescence of organic materials., 2000, The Royal Society of Chemistry, 1471-1507.
CSH	28	Barbarella et al., Modified Oligothiophenes with High Photo and Electroluminescence Efficiencies., 1999, Advanced Materals, 11, No. 16.
CSH	29	Schmitz et al., Polyneric Light-Emitting Diodes Based on Poly(*p*-phenylene ethynylene), Poly(triphenyldiamine), and Spiroquinoxaline., 2001, Advanced Functional Materials, 11, No. 1
CSH	30	Lamansky et al., Synthesis and Characterization of Phosphorescent Cyclometalated Iridium Complexes., 2001, Dept. of Chemistry, University of Southern California, 1704-1711.
CSH	31	Lamansky et al., Highly Phosphorescent Bis-Cyclometalated Iridium Complexes: Synthesis, Photophysical Characterization, and Use in Organic Light Emitting Diodes., 2001, American Chemical Society, 123, 4304-4312.
CSH	32	Tsutsui et al., High Quantum Efficiency in Organic Light-Emitting Devices with Iridium-Complex as a Triplet Emissive Center., 1999, Japanese Journal fo Applied Physics., Volume 38, L1502-L1504.
CSH	33	Naito et al., Molecular Design for Nonpolymeric Organic Dye Glasses with Thermal Stability: Relations between Thermodynamic Parameters and Amorphous Properties., 1993, The Journal of Physical Chemistry, Volume 97, No. 23, 6240-6248.
CSH	34	Bath et al., Electron mobility in tris(8-hydroxy-quinoline)aluminum thin filims determined via transient eletroluminescence from single- and multilayer organic light-emitting diodes., April 1, 2001, Journal of Applied Physics, Volume 89, No. 7, 3711-3719.
CSH	35	Adachi et al., Organic electroluminescence of silole-incorporated polysilane., 2000, Journal of Luminescence, Volume 87 89, 1174-1176.
CSH	36	Clarkson et al., Sprans with four aromatic radicals on the spiro carbon atom., 1930, The Chemistry Laboratory of the Unoversity of Michigan, Volume 52, 2881-2891.

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EXAMINER	DATE CONSIDERED 11/29/04

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